

FIG. 2

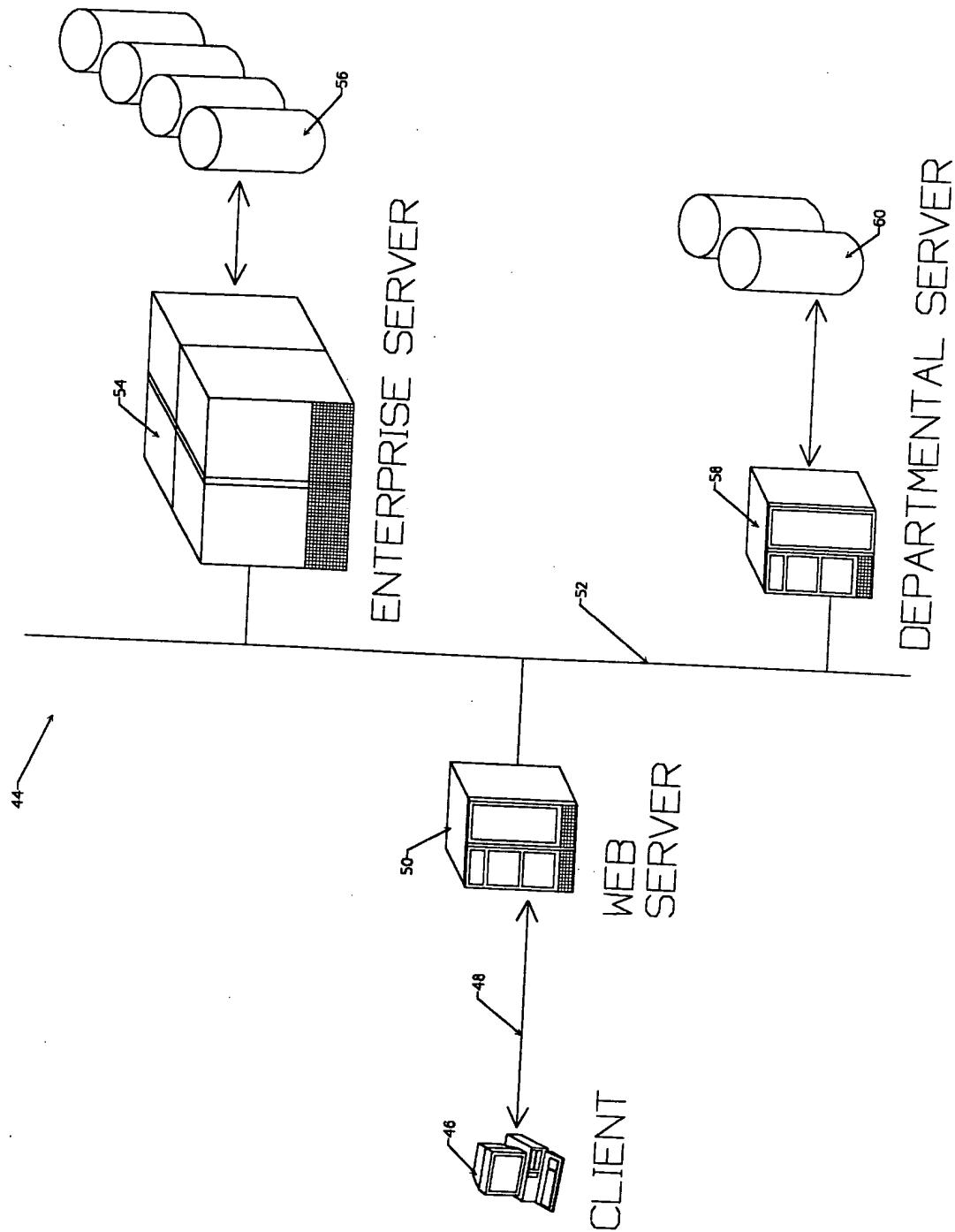


FIG. 3

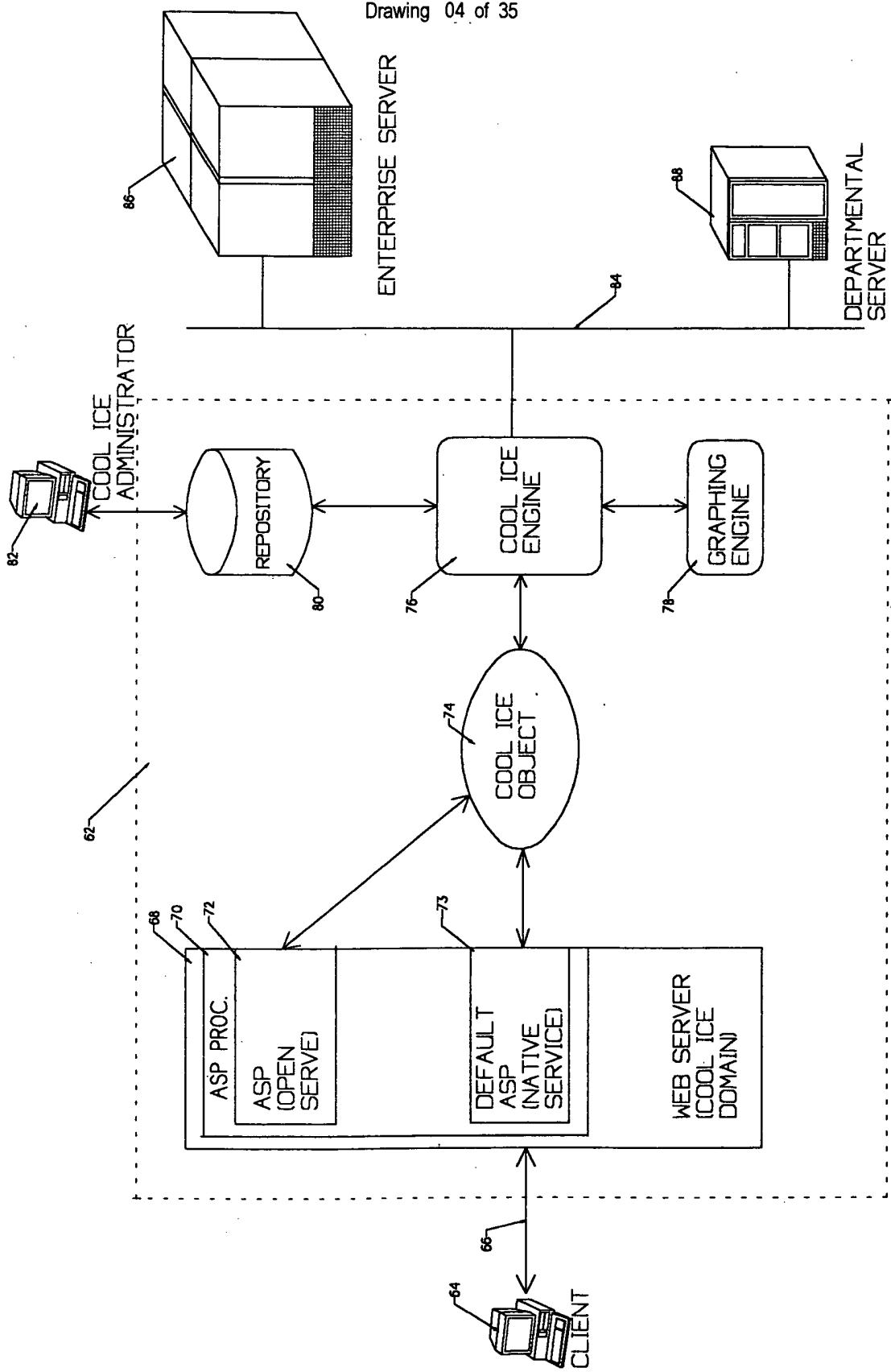
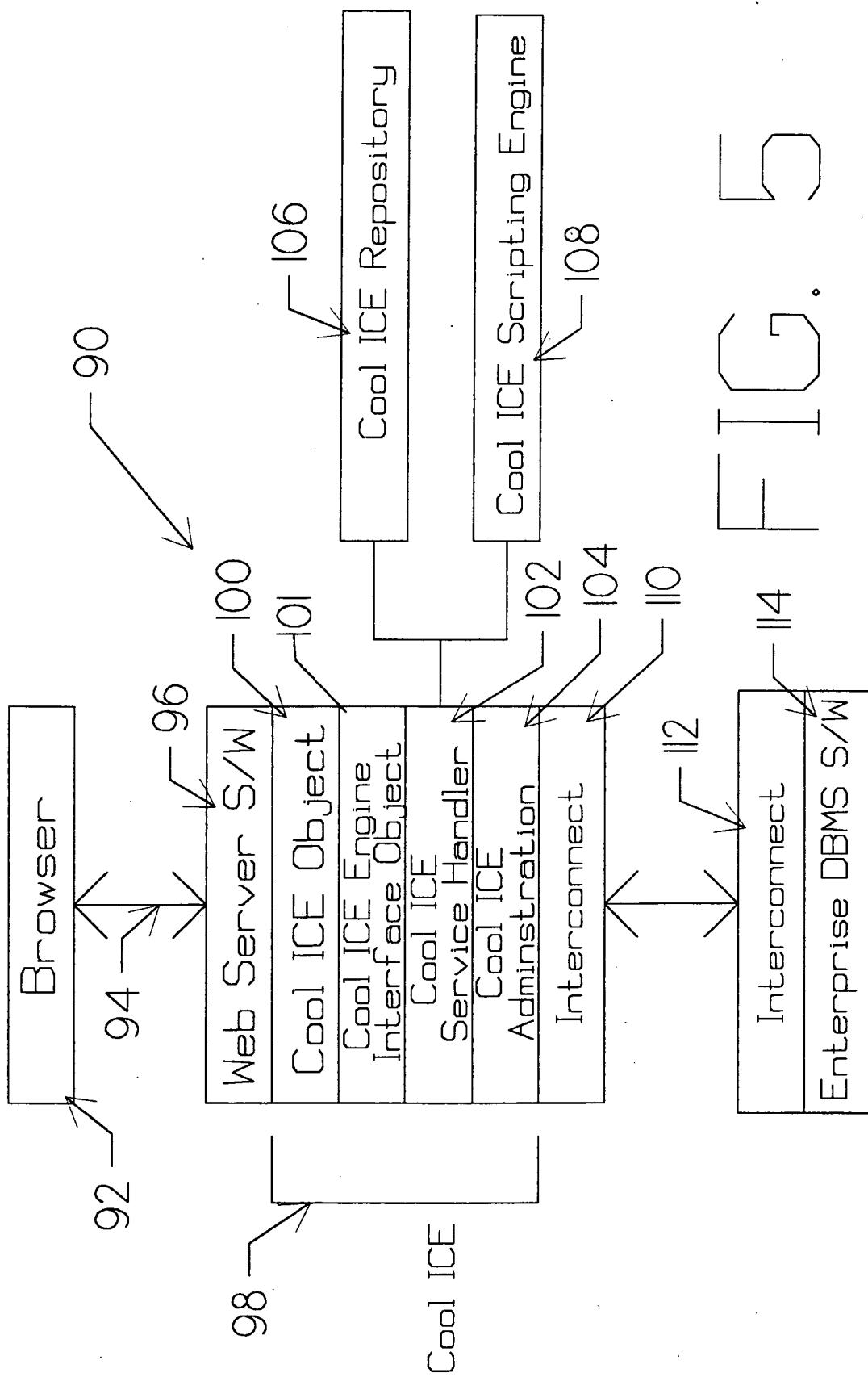


FIG. 4



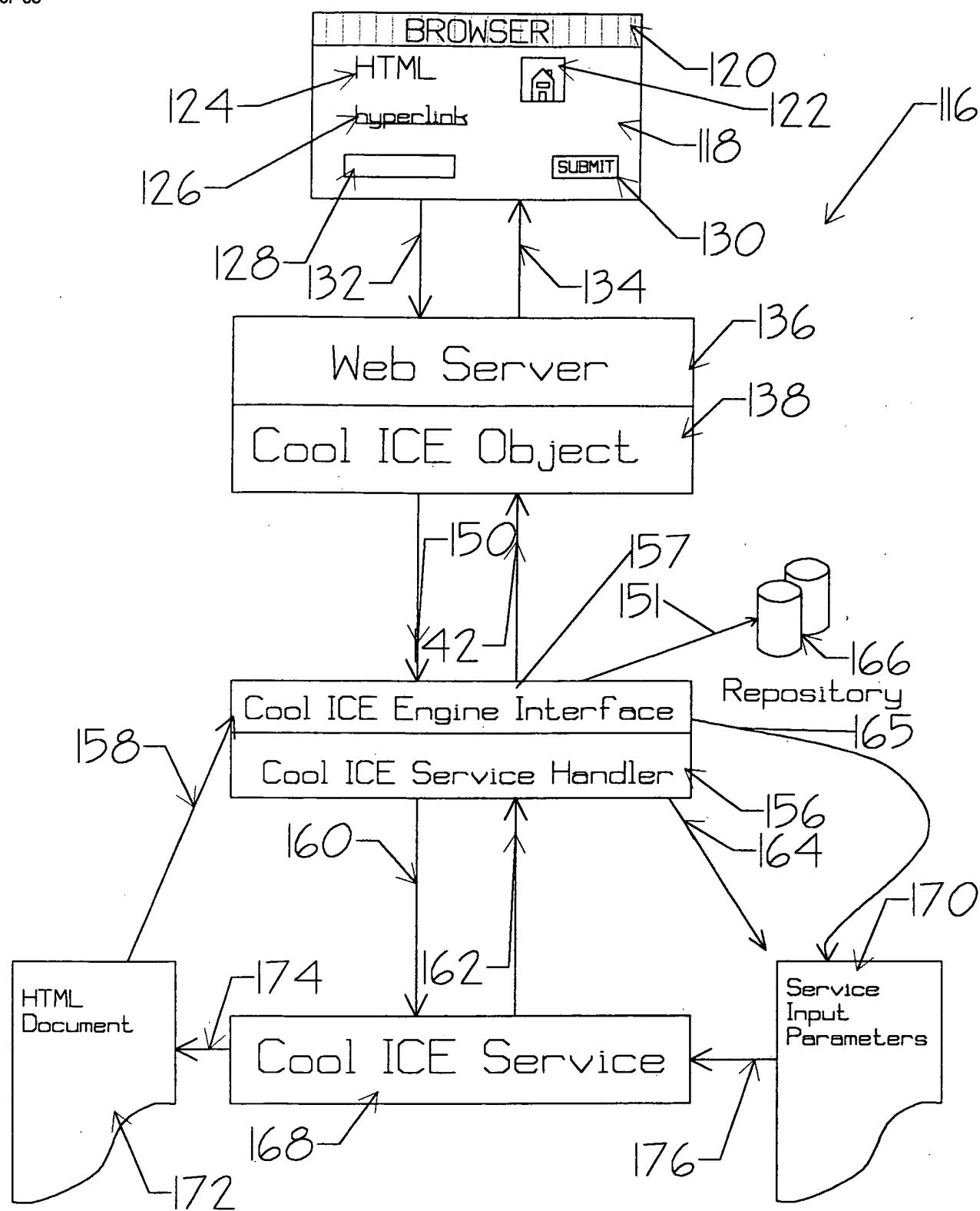


FIG. 6

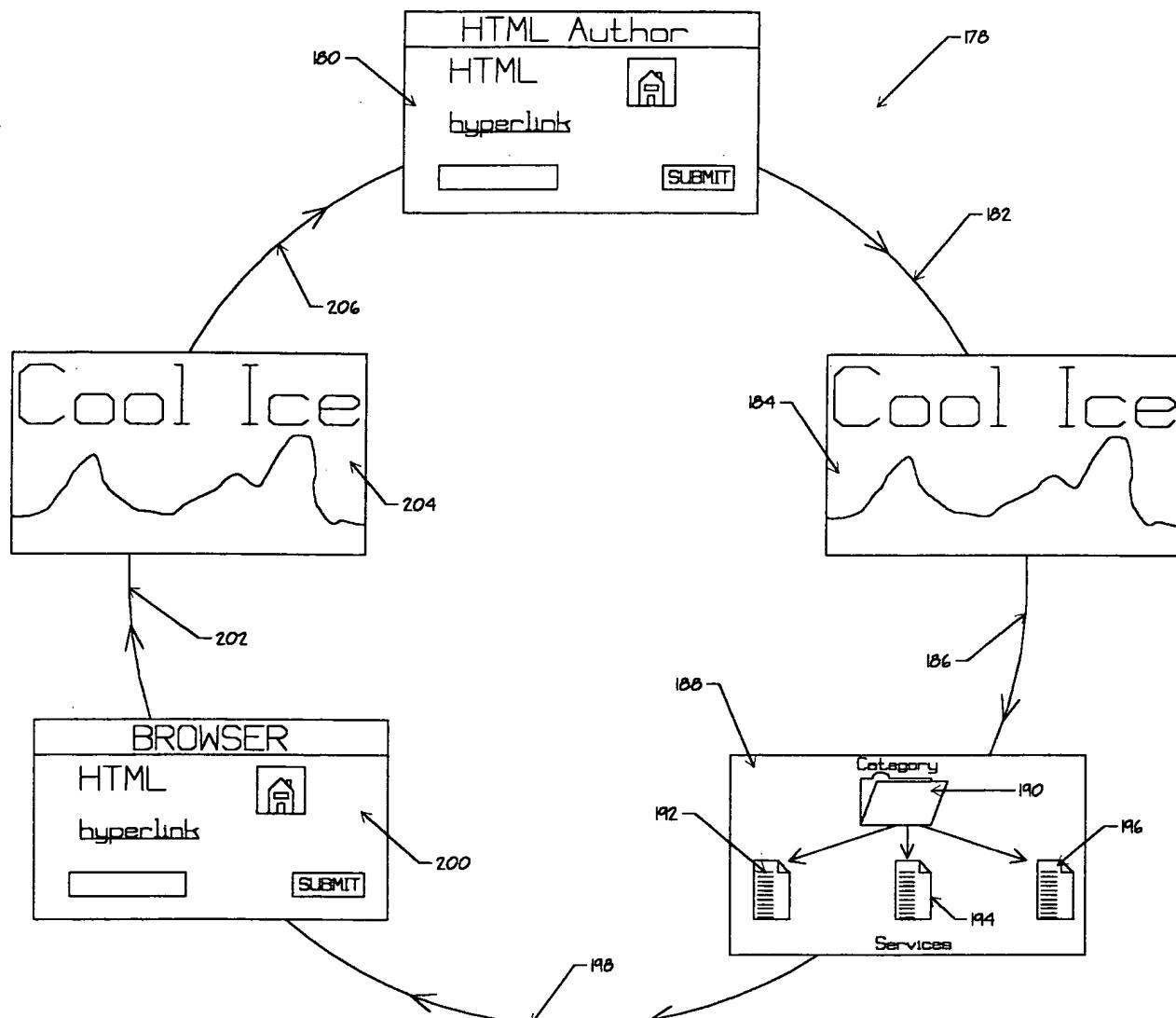
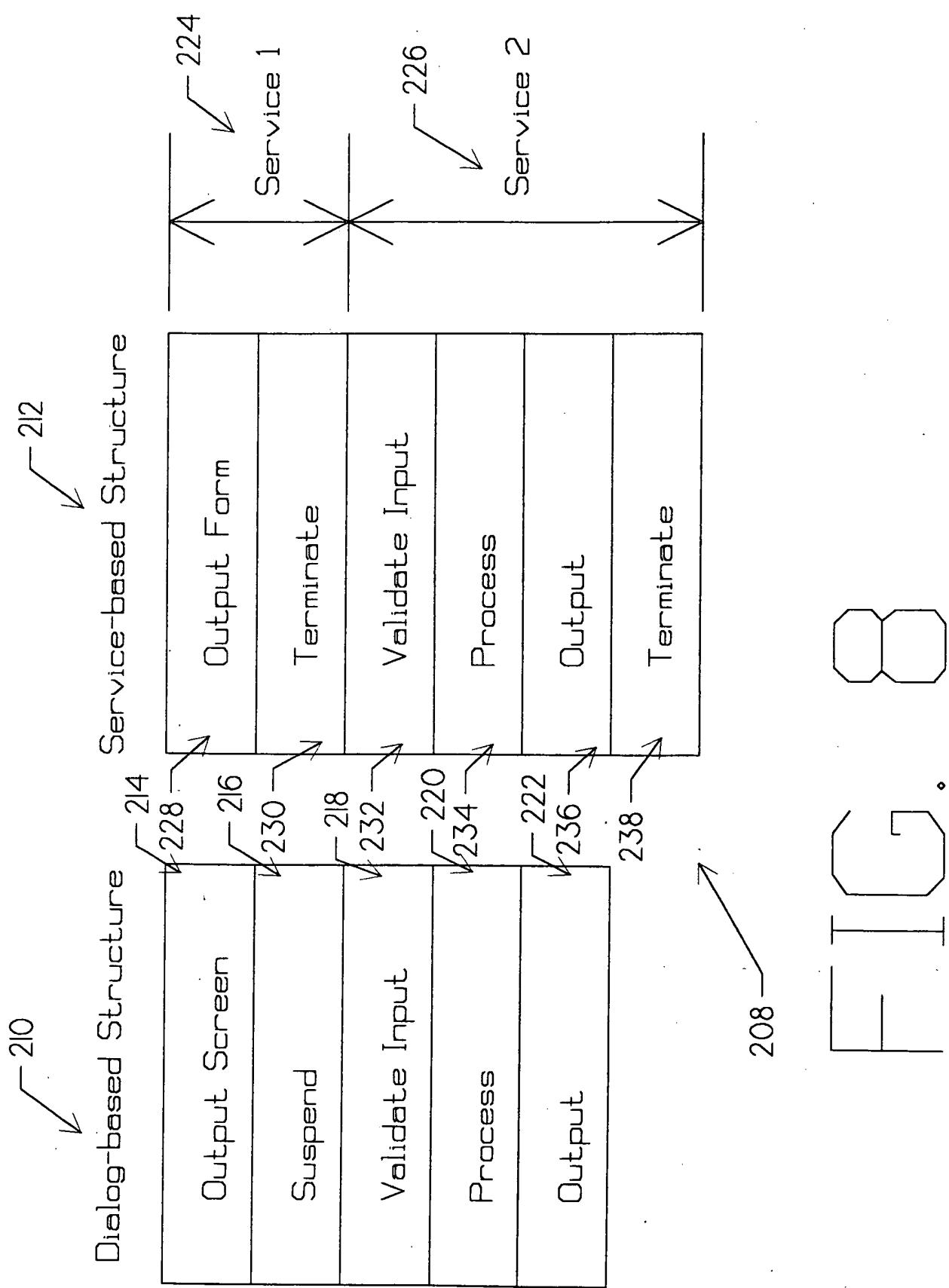


FIG. 7

Patent Application
Filing Date: 12/21/2001
Attala's Docket No. RA-5411 (33012/329/101).
Application: Thomas N. Turba et al.
Charles A. Johnson Reg. No. 20,852 651-635-7702
Drawing 08 of 35

Express Mail No. ET351442235US
Customer Assignment No. 27516



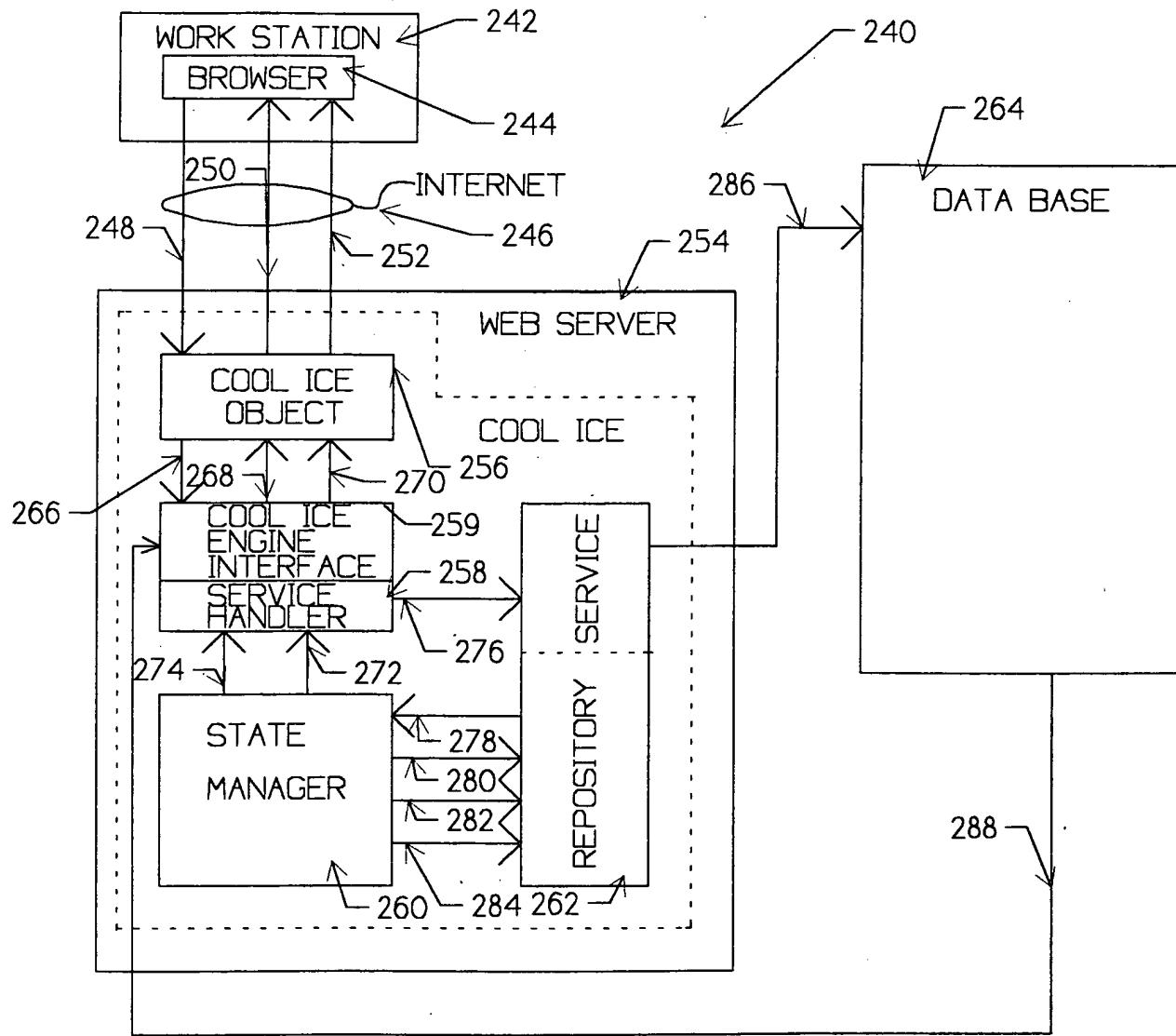


FIG. 9

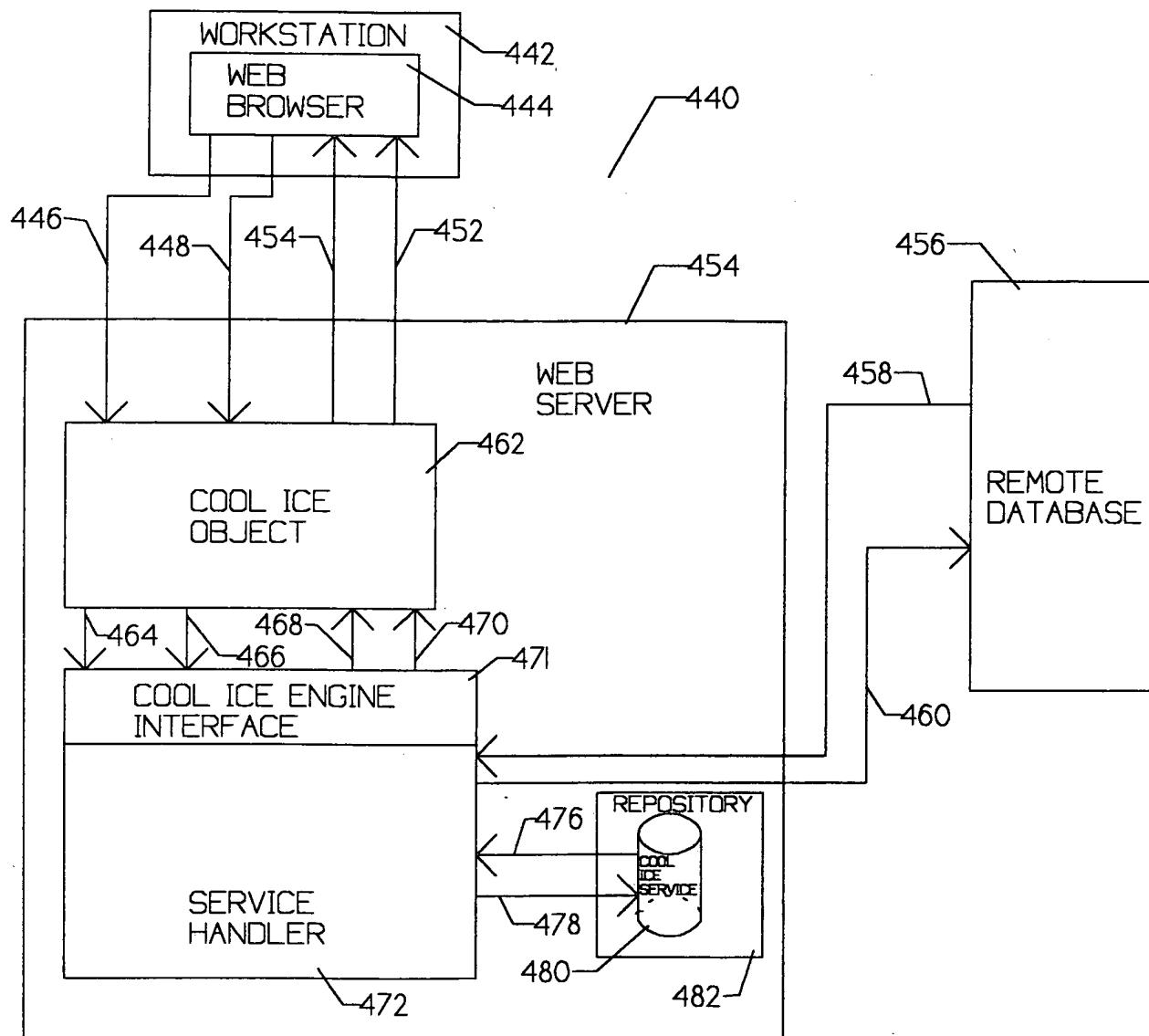


FIG. 10

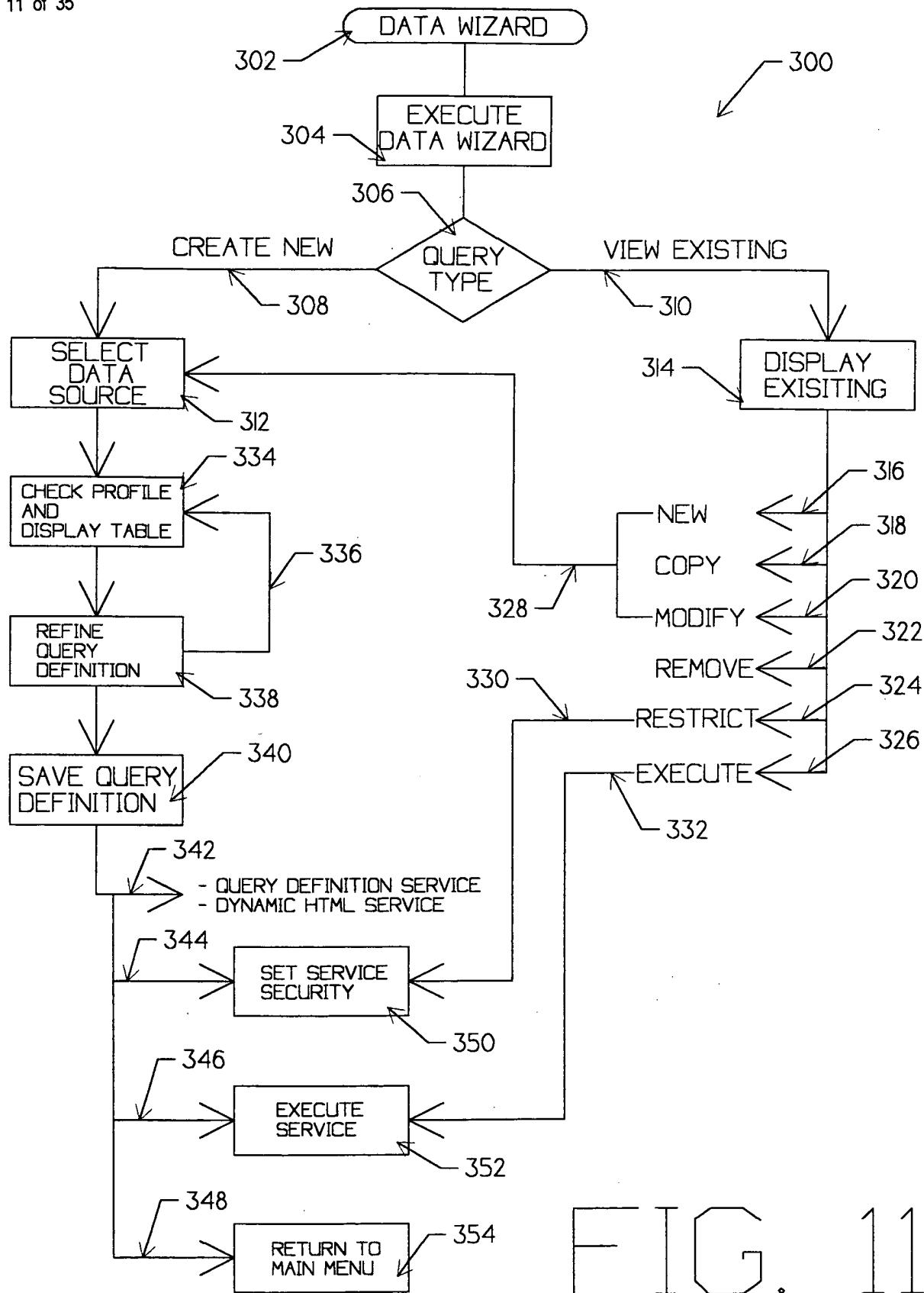


FIG. 11

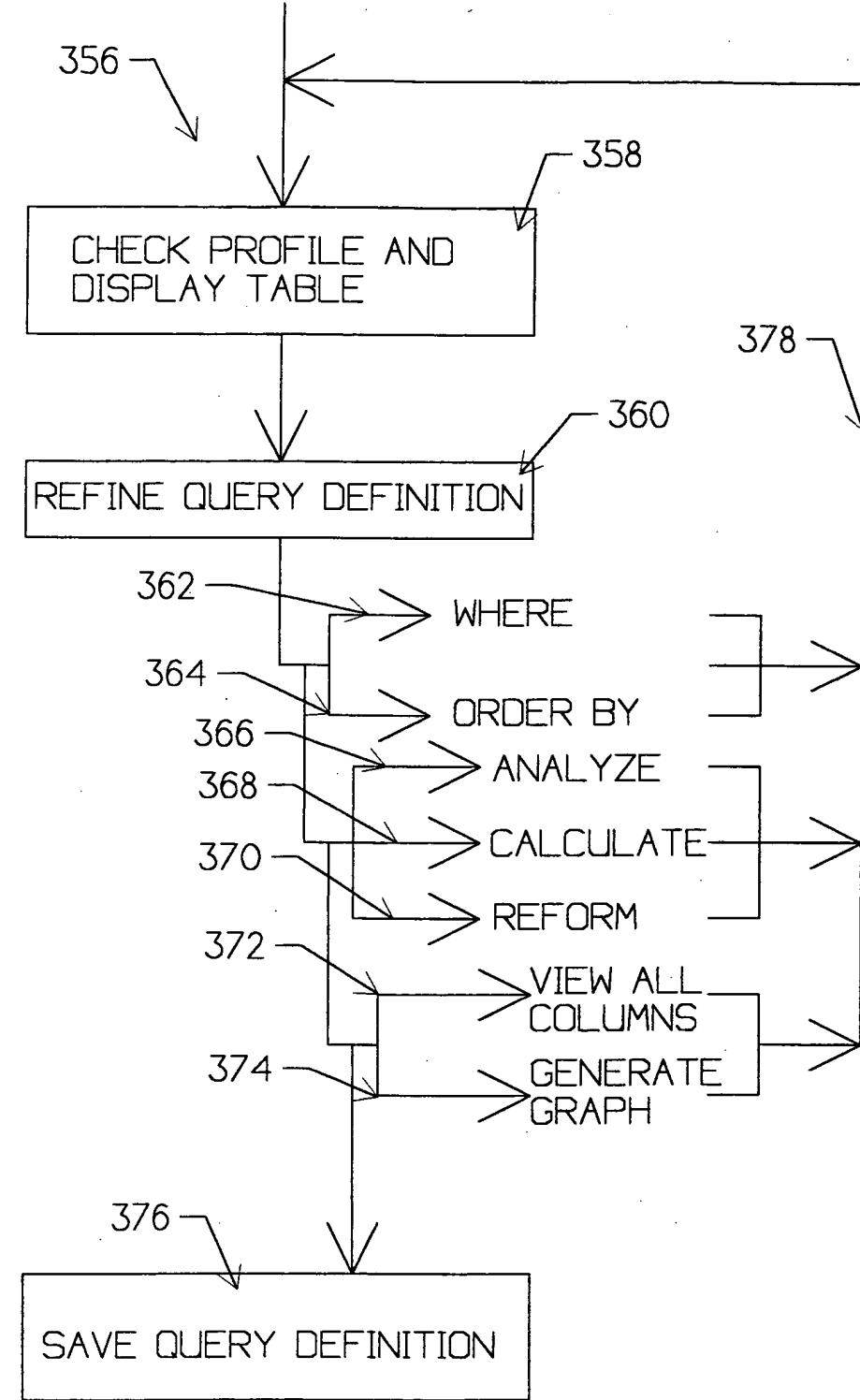


FIG. 12

Patent Application
Filed Date: 12/21/2001
Attorneys Docket No. RA-5411 (33012/329/101)
Application: Thomas N. Turba et al.
Charles A. Johnson Reg. No. 20,852 651-635-7702
Drawing 13 of 35

Express Mail No. ET351442235US
Customer Assignment No. 27516

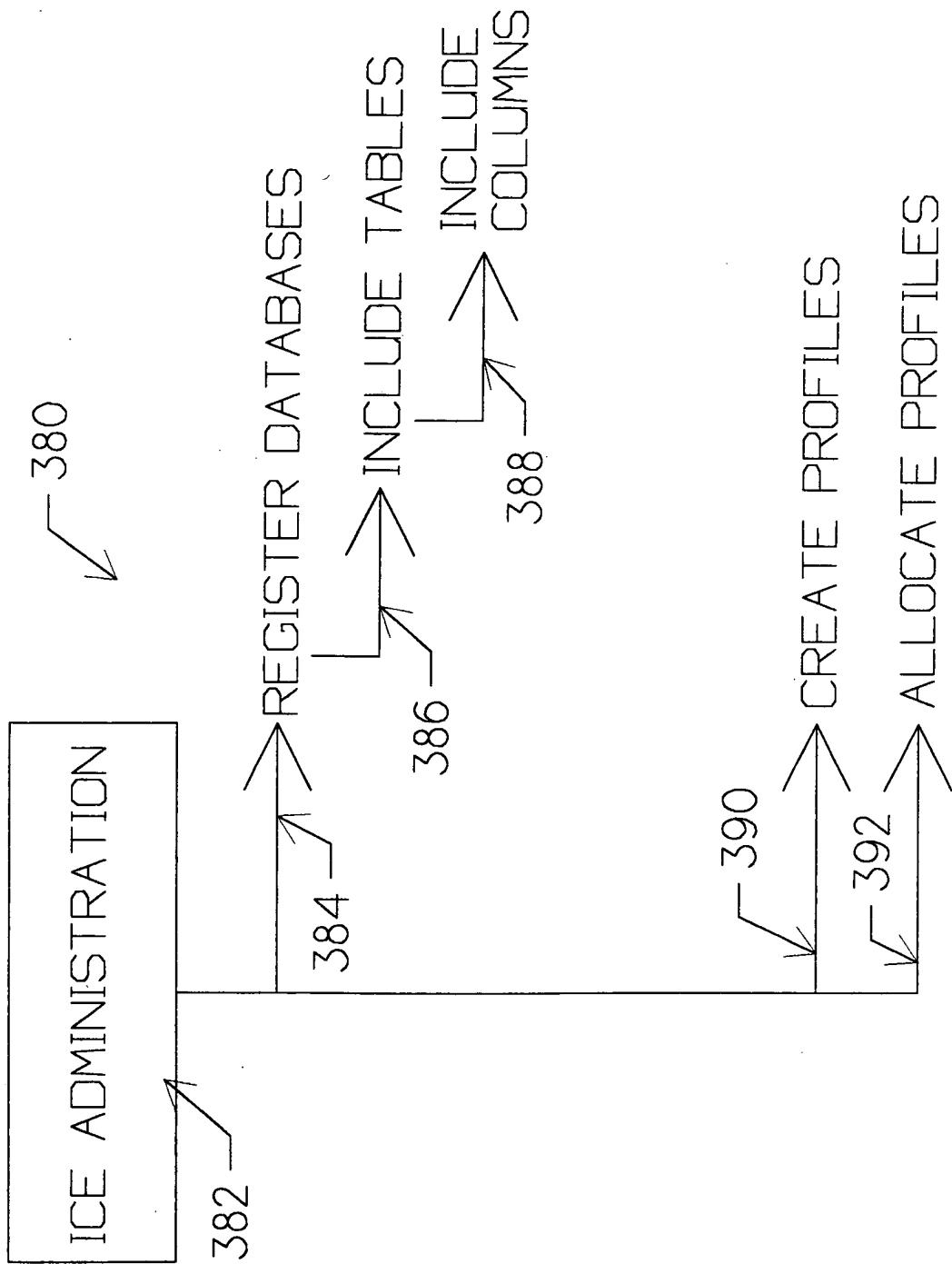


FIG. 13

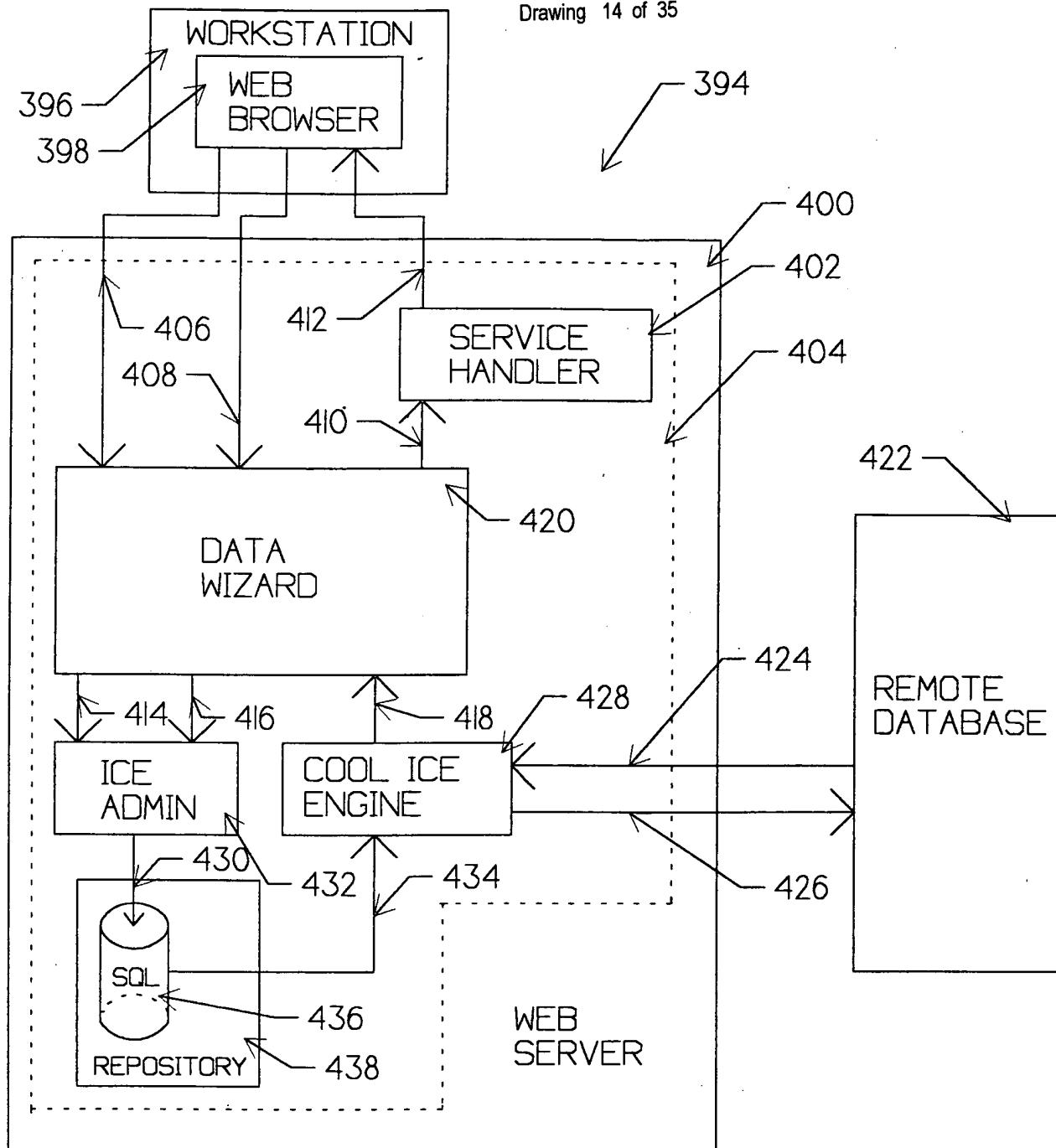
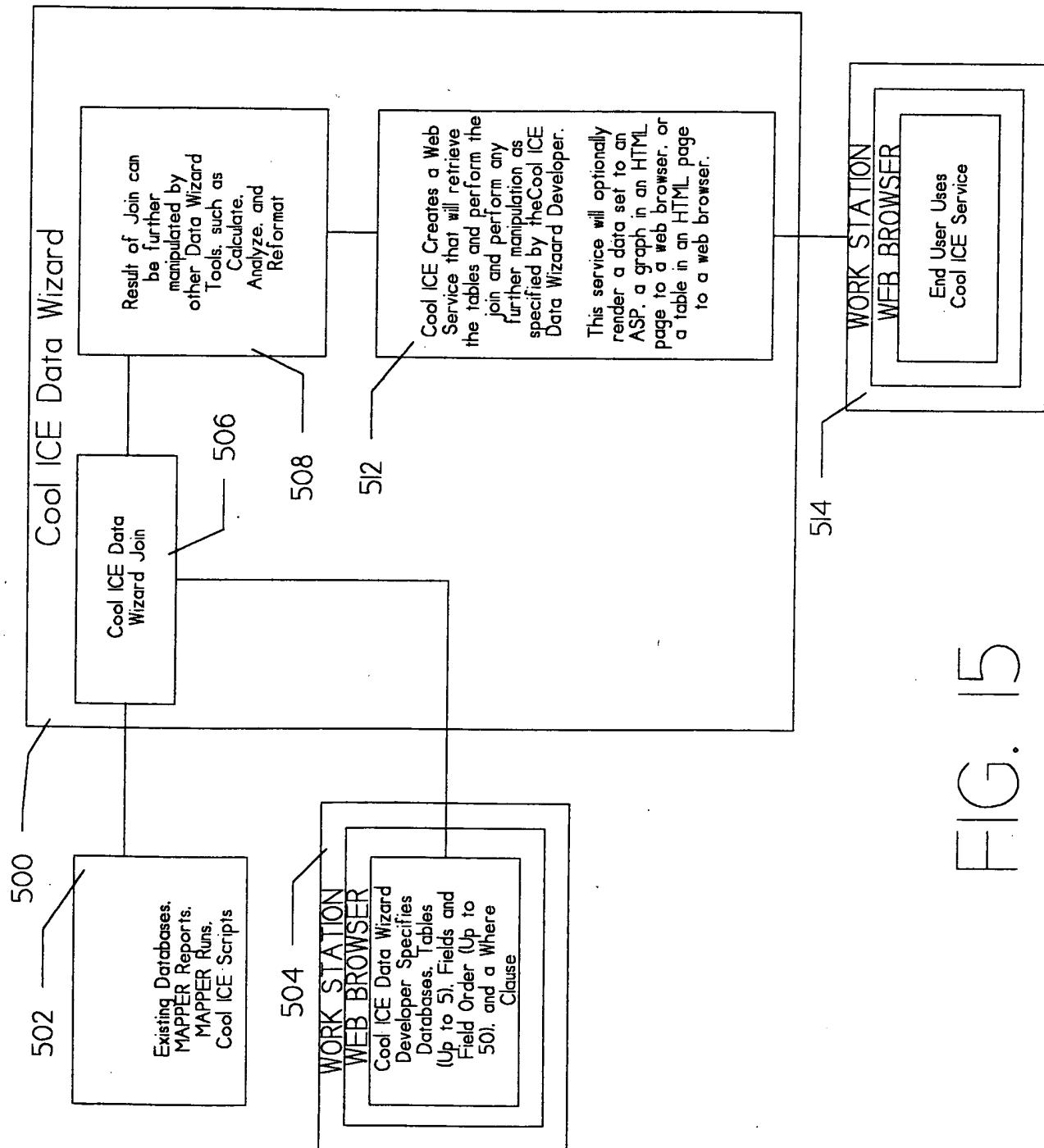


FIG. 14



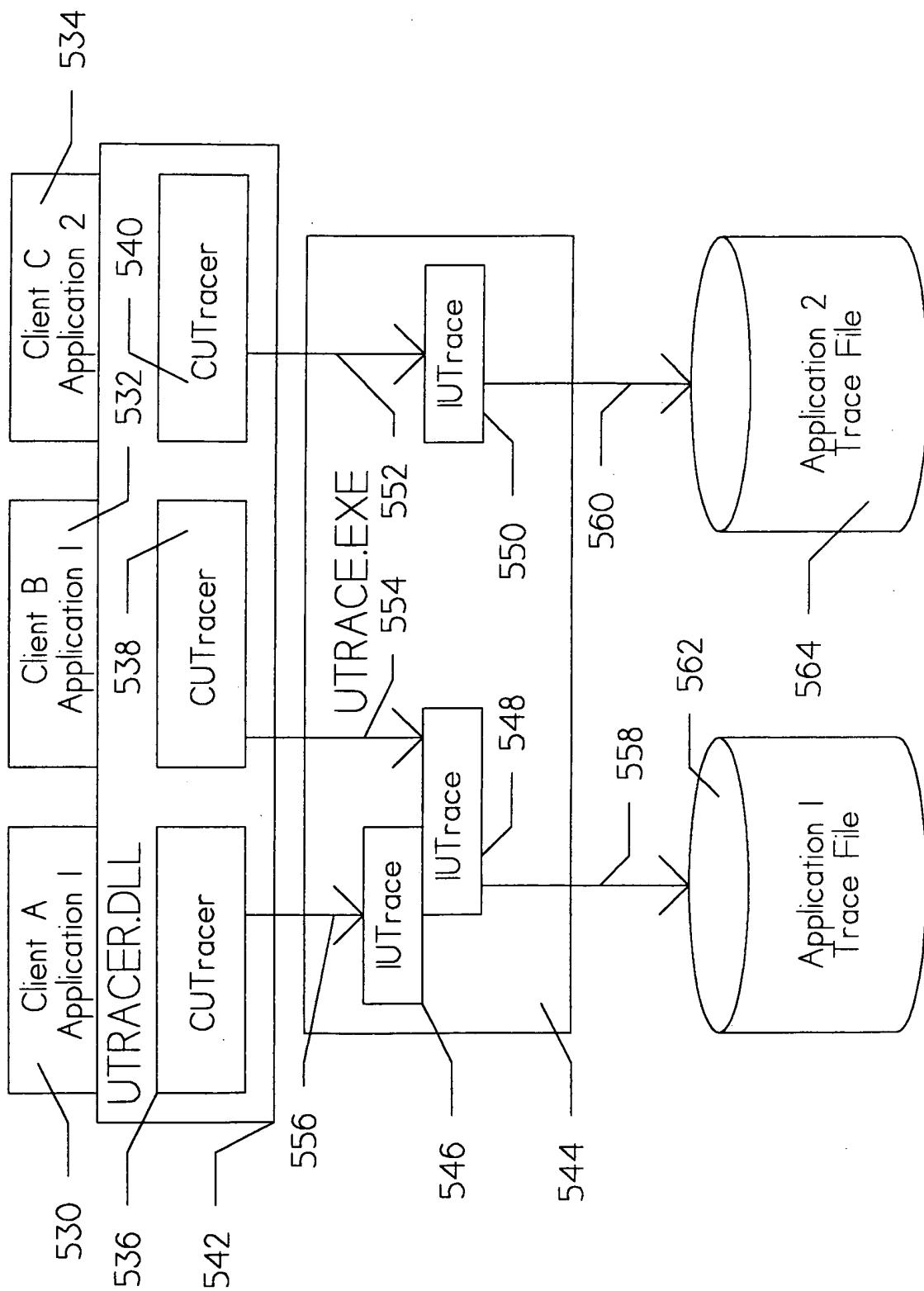


FIG. 17

HKLM\SOFTWARE\UNISYS\UTRACE

APPNAME -- Subkey matching the name of the application

565

ENABLETRACE -- DWORD value indicating a Boolean (1=trace, 0=no trace).
MAXENTRIES -- DWORD value indicating the maximum number of entries in the trace file. If missing, then no upper limit is imposed.
FORMATFLAGS -- DWORD value indicating message formatting flags.
POLICYFLAGS -- DWORD value indicating trace policy flags set for the application.

TRACELEVEL -- DWORD value indicating a trace level. 0 = no trace.

TRACEPATH -- String value indicating the directory path for the trace files.

REGTRACE -- A string value containing the HKLM\Software\subkey to trace for this application. Blank or missing for no registry trace.

COMPONENT -- A subkey for a specific component of the application.

POLICYFLAGS -- Value indicating component level trace policy flags

TRACELEVEL -- DWORD Value indicating a trace level. 0 = no trace.

VERSIONTRACE -- String value specifying executable component name for version information tracing.

FIG. 18

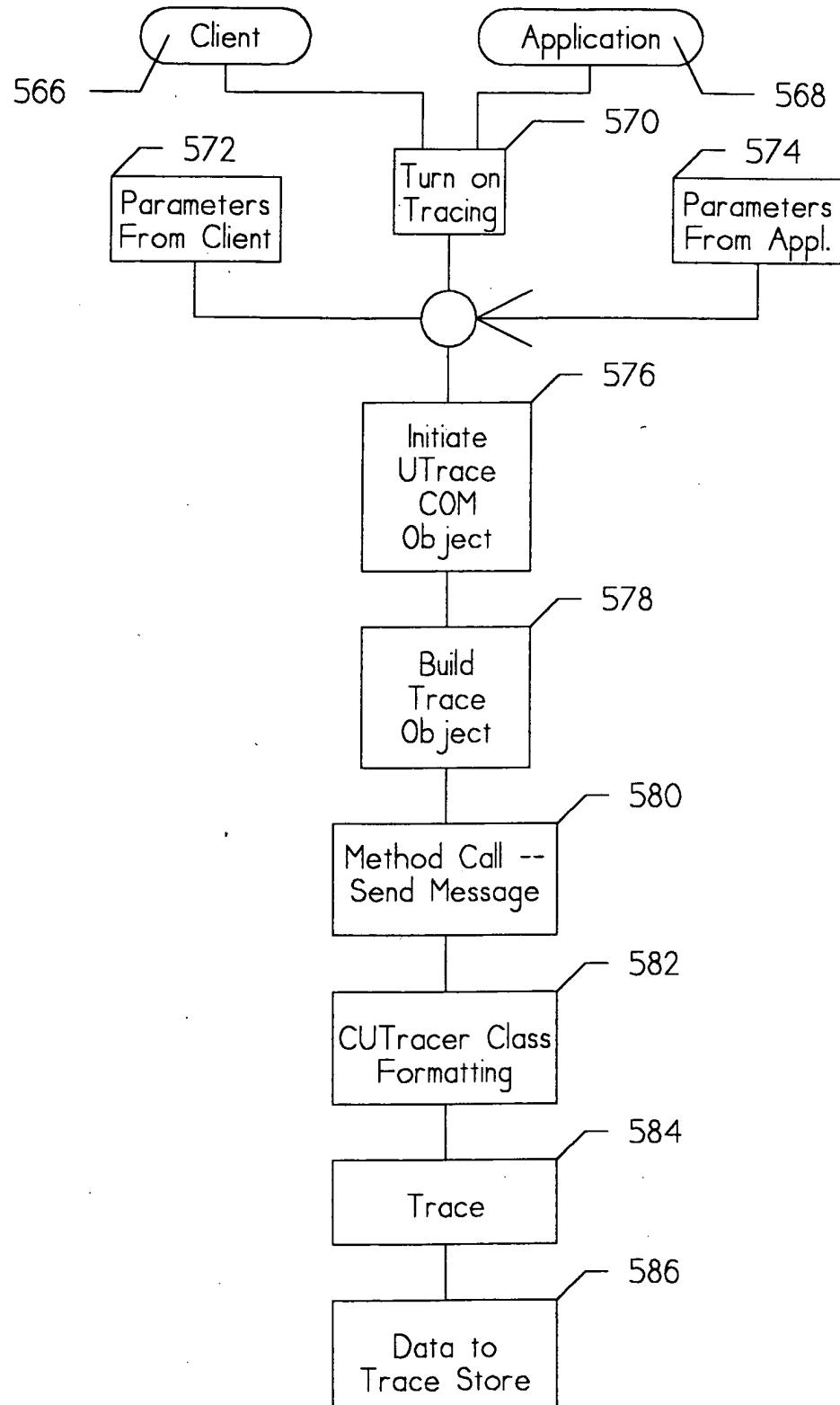


FIG. 19

Patent Application
Filing Date: 12/21/2001
Attorneys Docket No. RA-5411 (33012/329/101)
Application: Thomas N. Turba et al.
Charles A. Johnson Reg. No. 20,852 651-635-7702
Drawing 20 of 35

Express Mail No. ET351442235US
Customer Assignment No. 27516

```
#define CI_TRACE_VERSION      0x1
#define CI_TRACE_ERROR         0x2
#define CI_TRACE_INTERFACE     0x4
#define CI_TRACE_FLOW           0x8
#define CI_TRACE_DETAIL         0x10
```

FIG. 20A

if (m_trace.Active(C)_TRACE_DETAIL))
m_trace<<"MY Detailed Trace information"<<Localvariable<<traceit

FIG. 20B

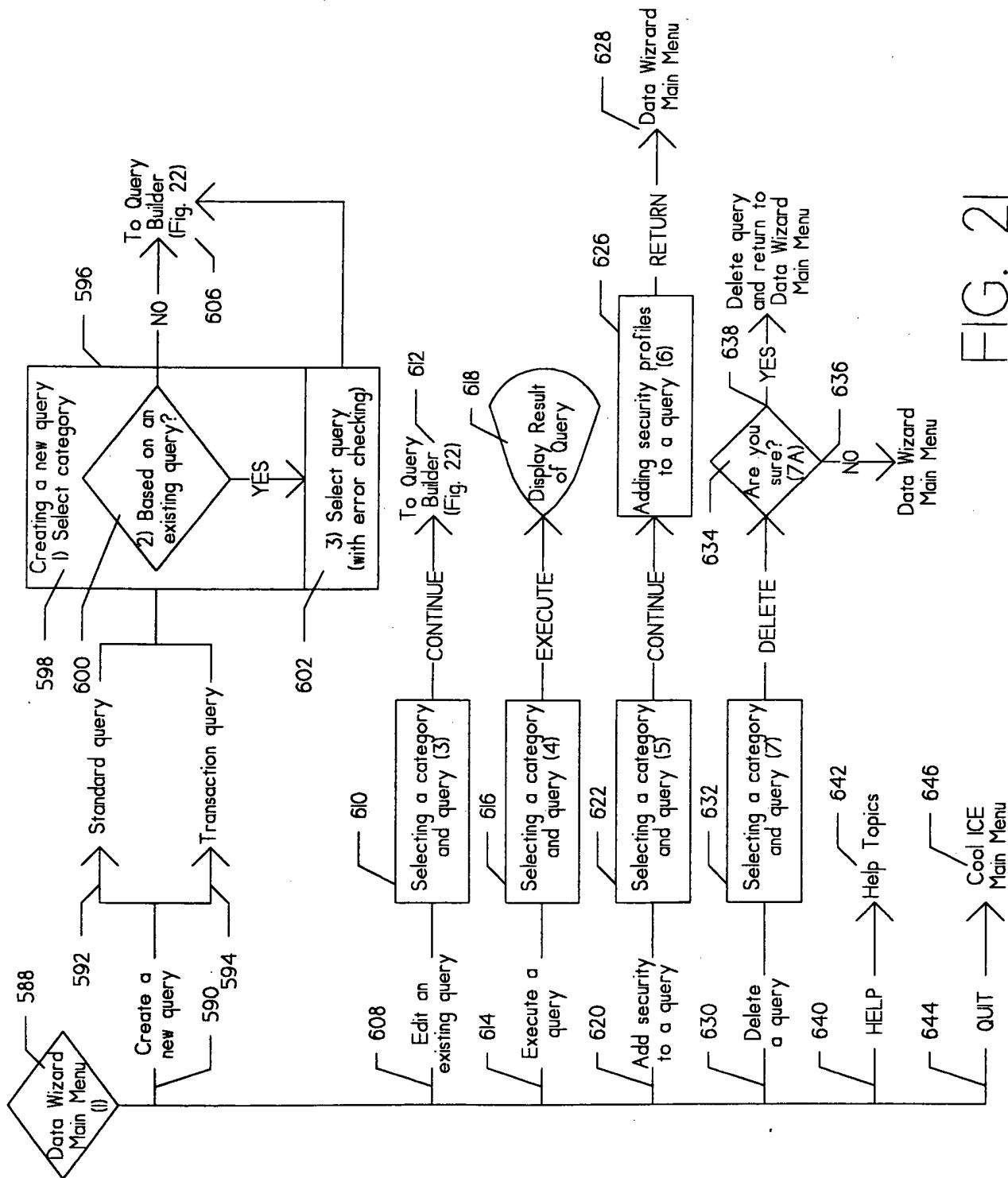


FIG. 21

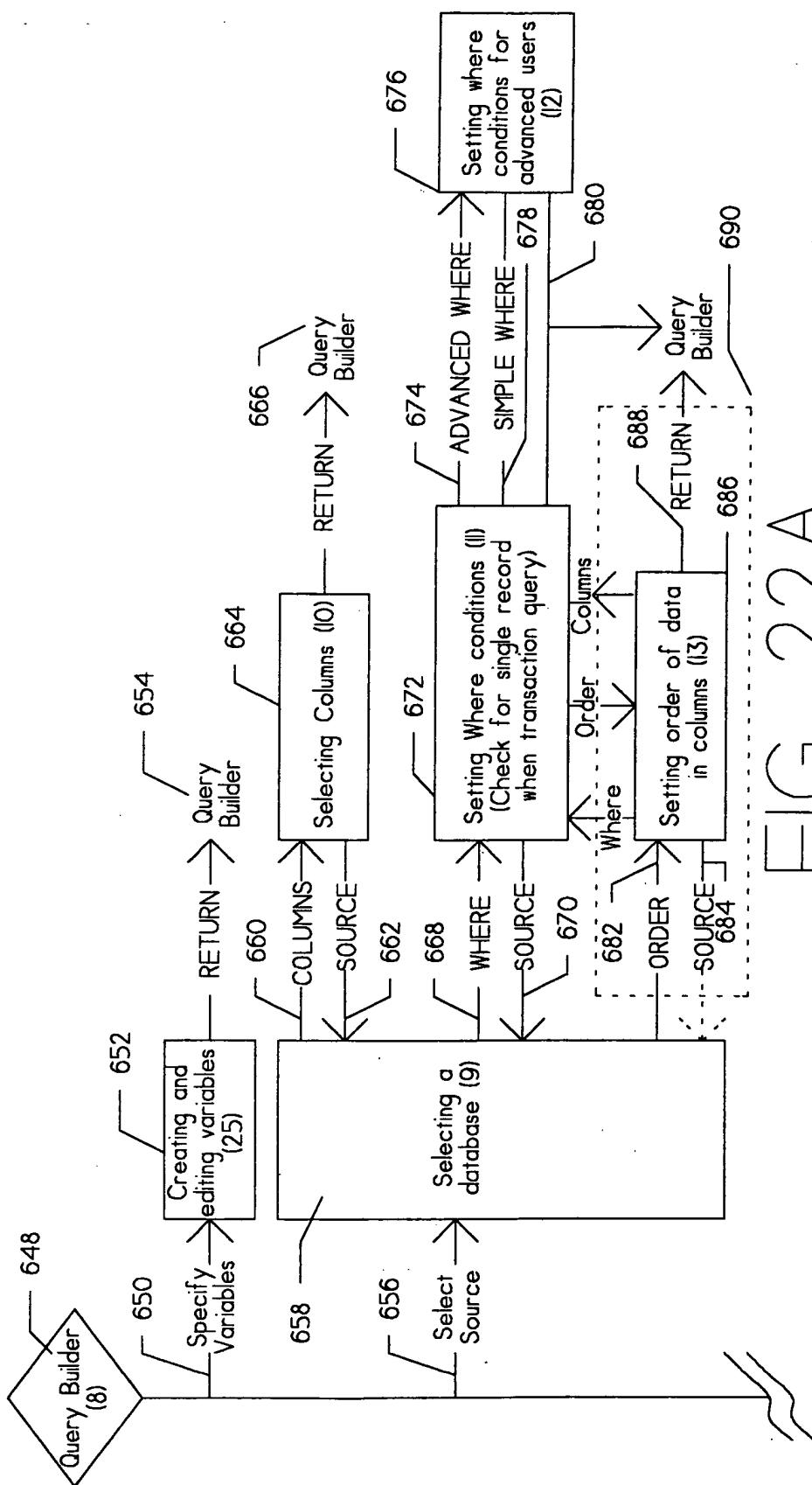


FIG. 22A

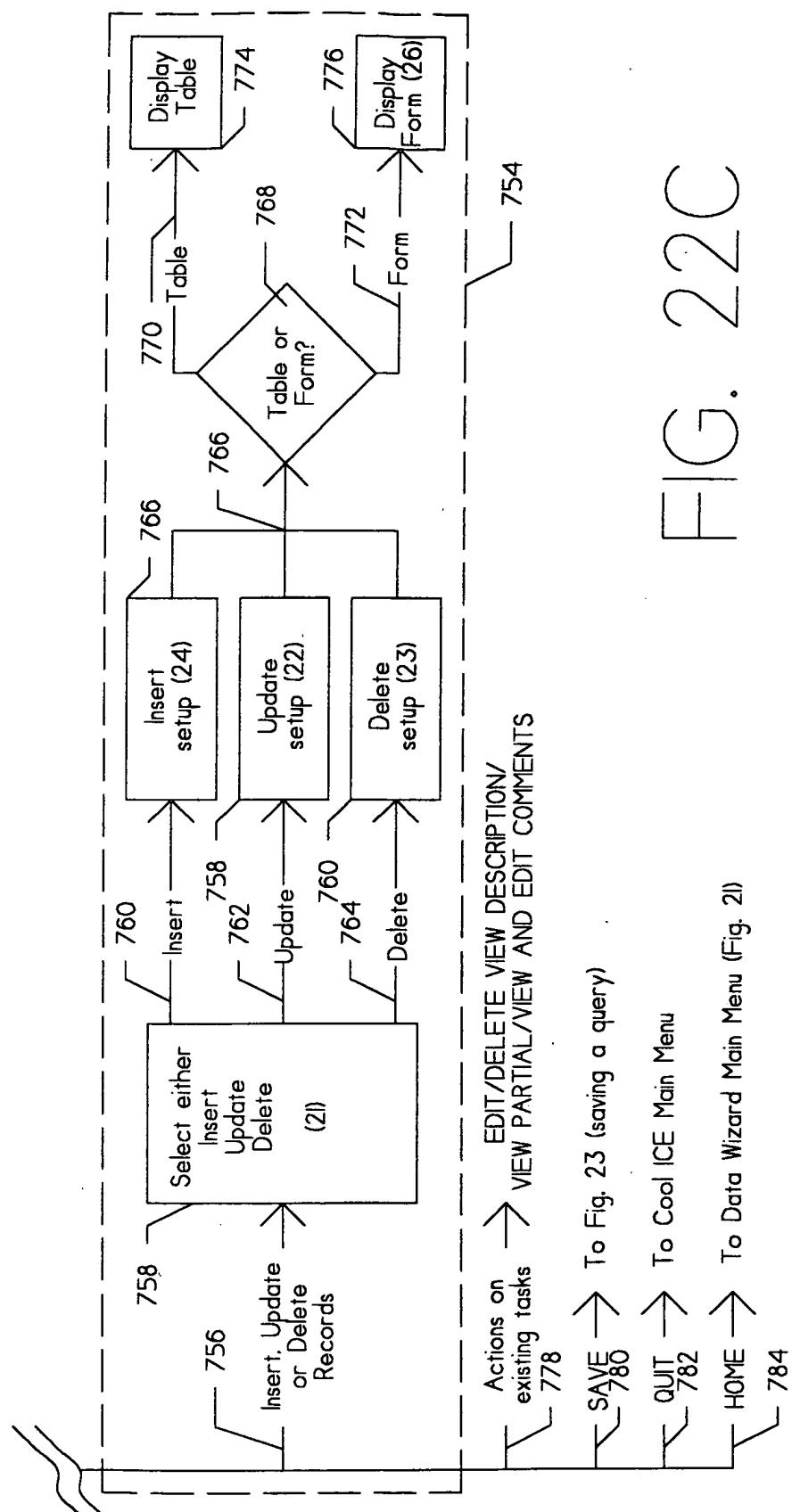
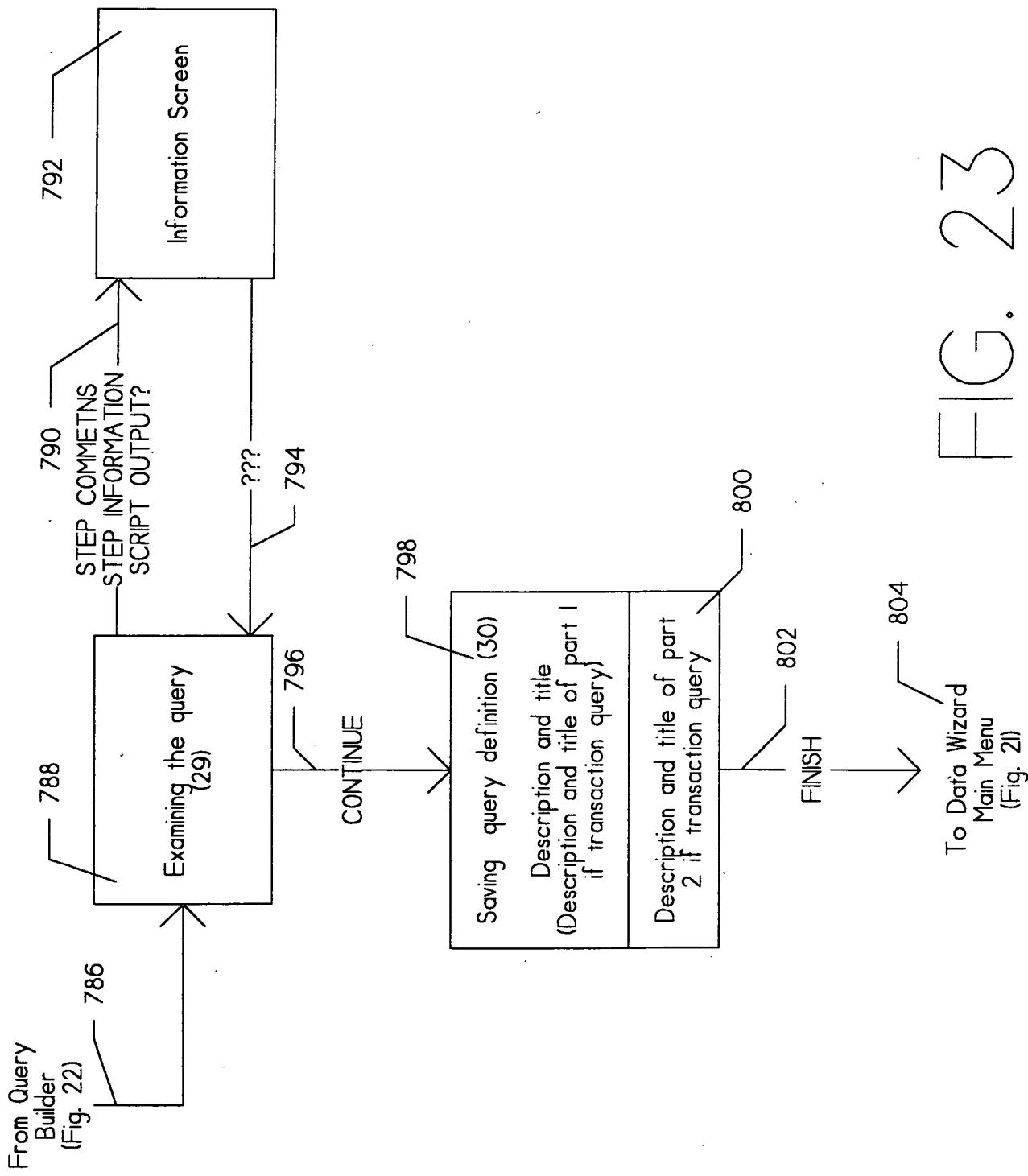


FIG. 22C



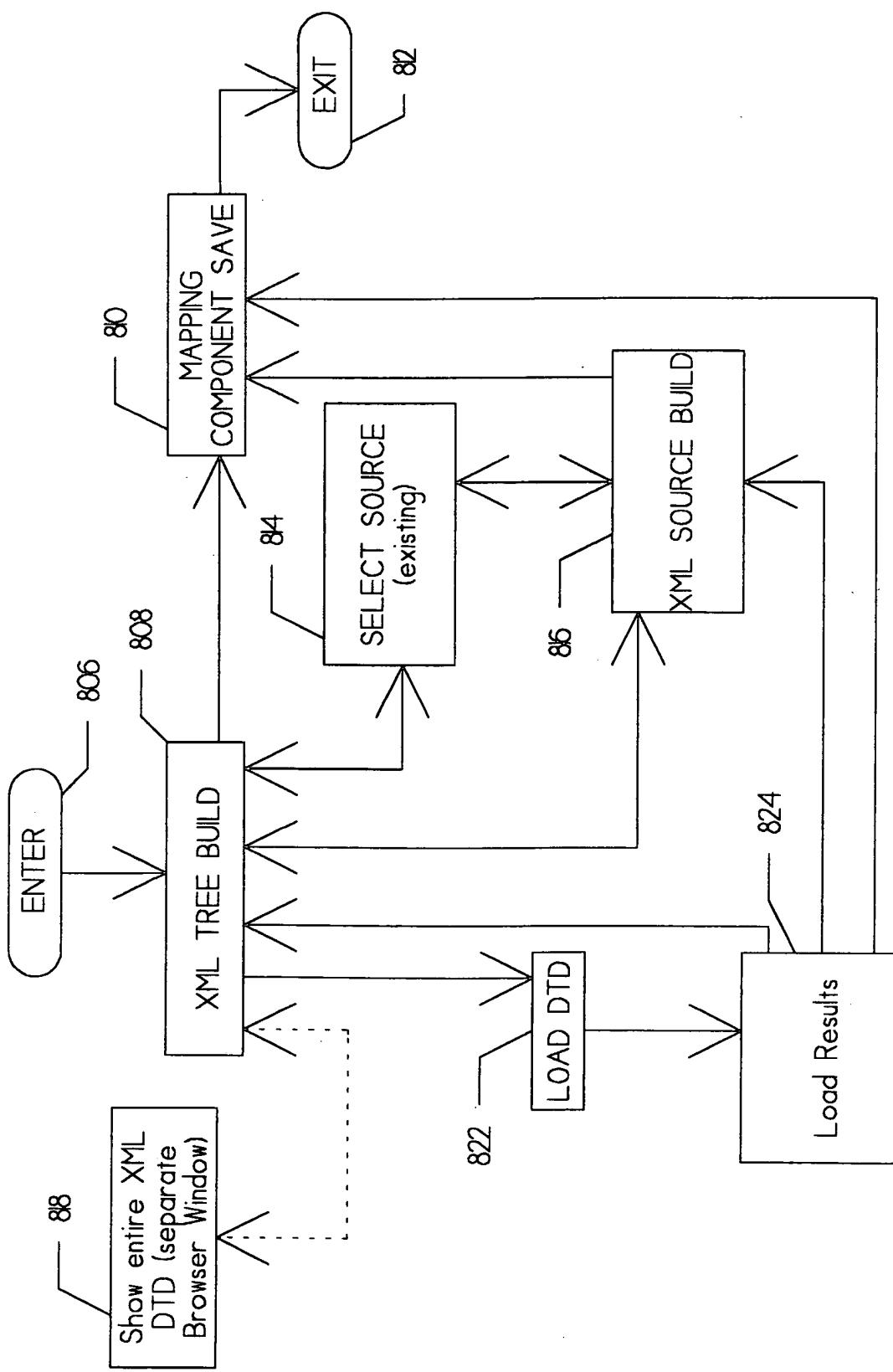


FIG. 24

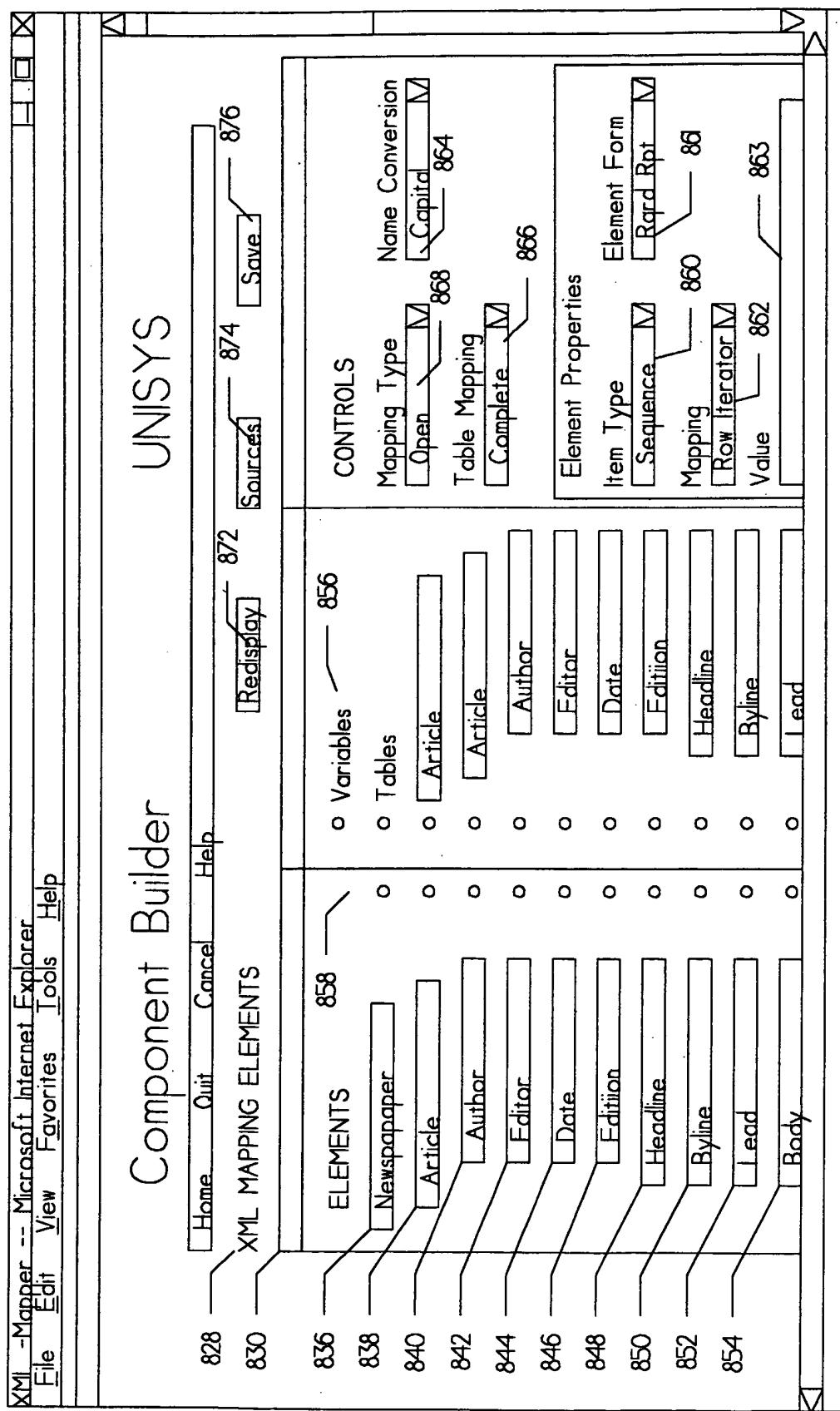


FIG. 25

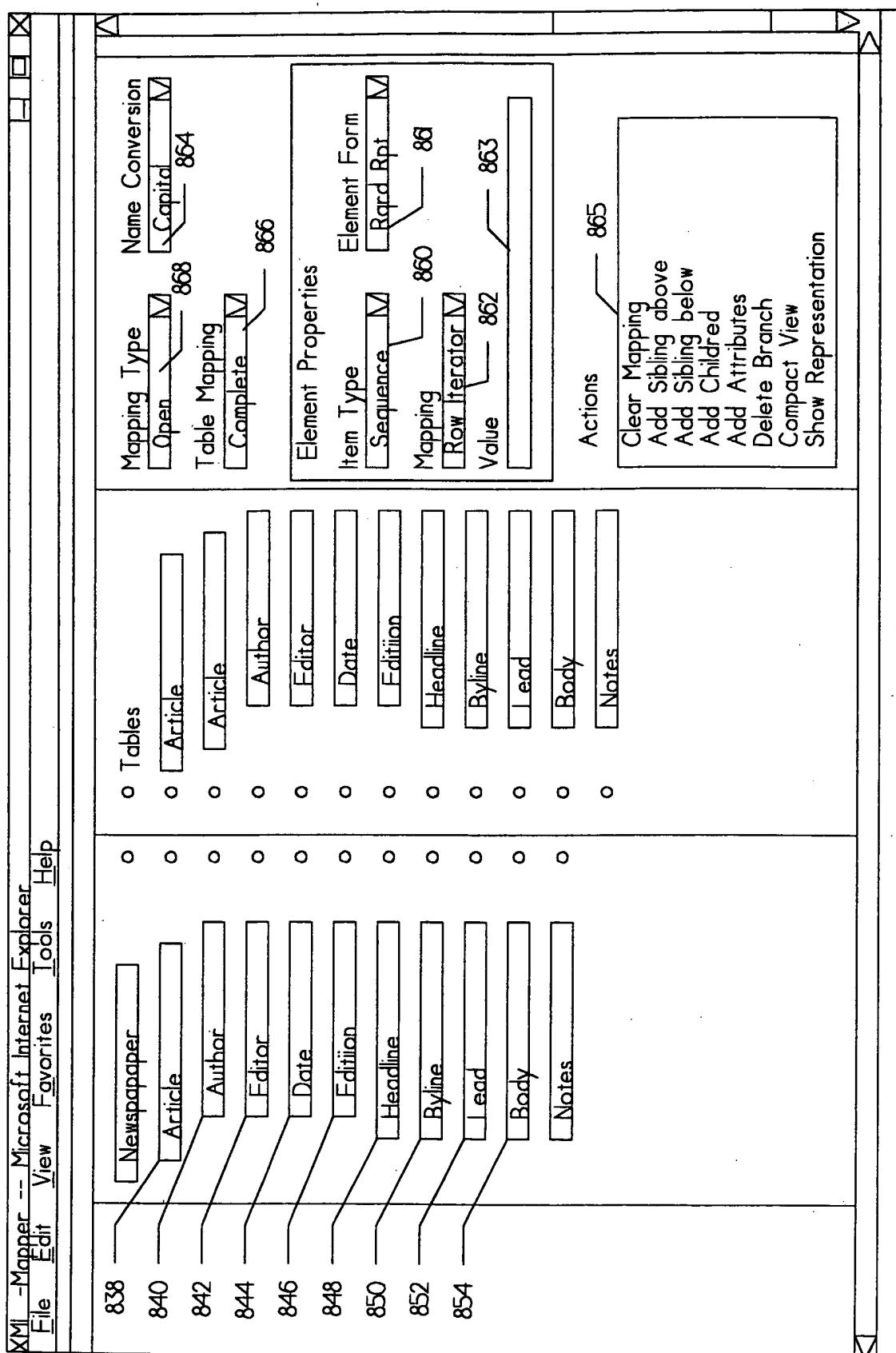


FIG. 26

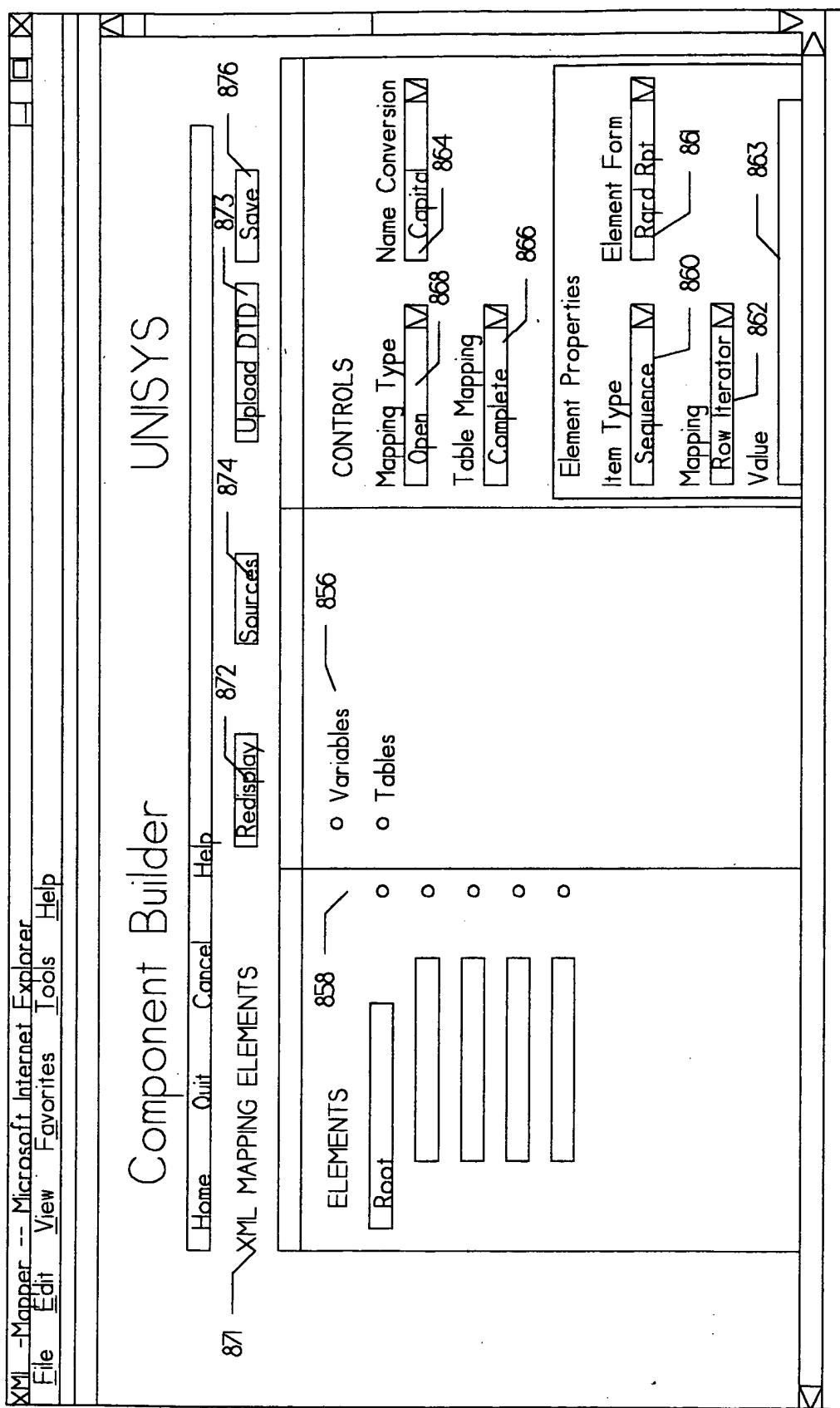


FIG. 27

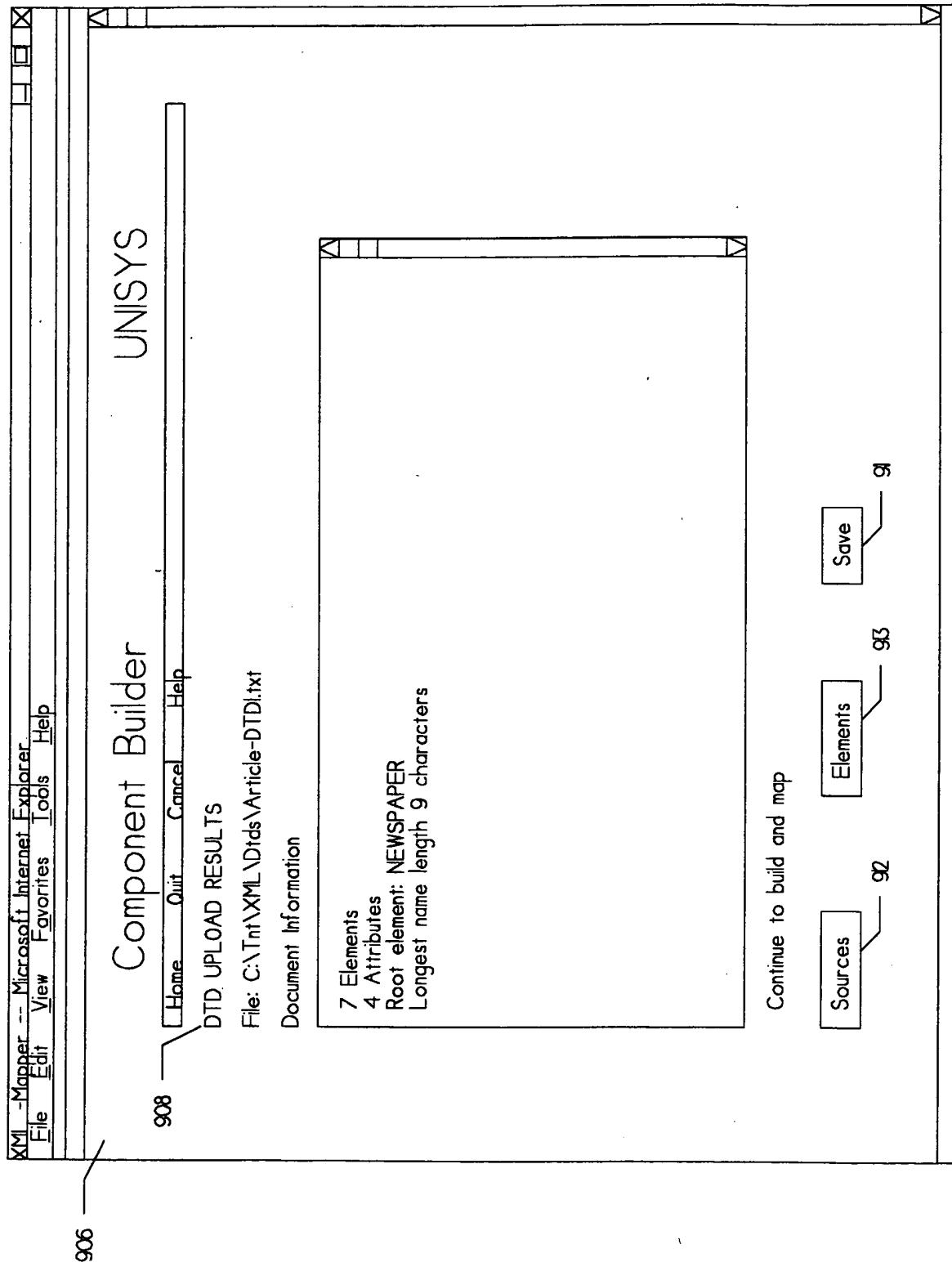


FIG. 28

IDT EXAMPLE

Version:AC:0.0 90
Truncation:AC:0 92
TypeCheck:AC:0 93
ShoeData:ED:0:R 94
From:DE:I:R
From:EV:Supplier:20:string
TableType:ED:I:R
TableType:EV:TableInfo:50:string
Inventory:ED:I:R
Inventory:BT:Inventory:7
Inventory:IH:ITEMNUMBER:I0
Inventory:IH:QTY:5
Inventory:IH:TYPE:I0
Inventory:IH:GENDER:6
Inventory:IH:SIZ:3
Inventory:IH:COLOR:3I
Inventory:IH:UNITCOST:I3
Date:AD:I:R
Date:AV:Date:I0:string
Time:AD:I:R
Time:AV:Time:5:string
Row:ED:2:R
Row:BR:I
ItemNr:ED:2:R
ItemNr:EF:I:ITEMNUMBER:I0:R:string
Quantity:AD:2:R
Quantity:AF:I:QTY:5:R:string
Type:ED:2:R
Type:EF:I:TYPE:I0:L:string:
Gender:ED:2:0
Gender:EF:I:GENDER:6:L:string:UniSex
Size:ED:2:R
Size:EF:I:SIZ:3:L:string:
Color:ED:3:0
Color:EF:I:COLOR:3I:L:string:White
Unitcost:ED:2:R
Unitcost:EF:I:UNITCOST:I3:R:string:
Row:EE:2
Row:ER:a
Inventory:EE:I 96
Inventory:ET:I

FIG. 29

```
<!ELEMENT ShoeData (From, TableType, Inventory)>
<!ELEMENT From (#PCDATA)>
<!ELEMENT TableType (#PCDATA)>
<!ELEMENT Inventory (Row+)>
<!ELEMENT Row (Inventory, Date, Time, ItemNr, Type, Gener?, Size, Color?, Unitcost)+>
<!ELEMENT Inventory (#PCDATA)>
<!ELEMENT Date (#PCDATA) #REQUIRED>
<!ELEMENT Time (#PCDATA) #REQUIRED>
<!ELEMENT ItemNr (#PCDATA)>
<!ELEMENT Type (#PCDATA) #REQUIRED>
<!ELEMENT Quantity (#PCDATA)>
<!ELEMENT Gener (#PCDATA)>
<!ELEMENT Size (#PCDATA)>
<!ELEMENT Color (#PCDATA)>
<!ELEMENT Unitcost (#PCDATA)>
```

XML INPUT DOCUMENT EXAMPLE

```
<?xml version="1.0" encoding="ISO-8859-1"?> 920
<ShoeData>
<From>Roseville Store</From>
<TableType>Low Inventory Count</TableType>
<Inventory Date="2000-12-05" Time="1:51">
<Row>
<ItemNr Quantity="0">32335</ItemNr>
<Type>Tennis</Type>
<Gender>Mens</Gender>
<Size>6</Size>
<Color>White/Zen Grey/New Spruce</Color>
<Unitcost>25.00</Unitcost>
</Row>
<Row>
<ItemNr Quantity="0">35410</ItemNr>
<Type>Running</Type>
<Gender>Womens</Gender>
<Size>5</Size>
<Color>White/Zen Grey/Neptune Blue</Color>
<Unitcost>19.70</Unitcost>
</Row>
<Row>
<ItemNr Quantity="0">35411</ItemNr>
<Type>Running</Type>
<Gender>Womens</Gender>
<Size>6</Size>
<Color>White/Zen Grey/Neptune Blue</Color>
<Unitcost>19.70</Unitcost>
</Row>
<Row>
<ItemNr Quantity="2">35420</ItemNr>
<Type>Running</Type>
<Gender>Womens</Gender>
<Size>5</Size>
<Color>White/Chlorine Blue/Hot Lime</Color>
<Unitcost>19.70</Unitcost>
</Row>
<Row>
<ItemNr Quantity="1">37421</ItemNr>
<Type>Golf</Type>
<Gender>Womens</Gender>
<Size>8</Size>
<Color>White/Fluorescent Pink</Color>
<Unitcost>35.00</Unitcost>
</Row>
</Inventory>
</ShoeData>
<Color>White/Black-Hot Lime, Neo Teak</Color>
<Unitcost>40.00</Unitcost>
</Row>
<Row>
<ItemNr Quantity="0">32474</ItemNr>
<Type>Tennis</Type>
<Gender>Womens</Gender>
<Size>8</Size>
<Color>White/Light Marine-Ultramarine</Color>
<Unitcost>25.00</Unitcost>
</Row>
<Row>
<ItemNr Quantity="1">35310</ItemNr>
<Type>Running</Type>
<Gender>Mens</Gender>
<Size>6</Size>
```

FIG. 31

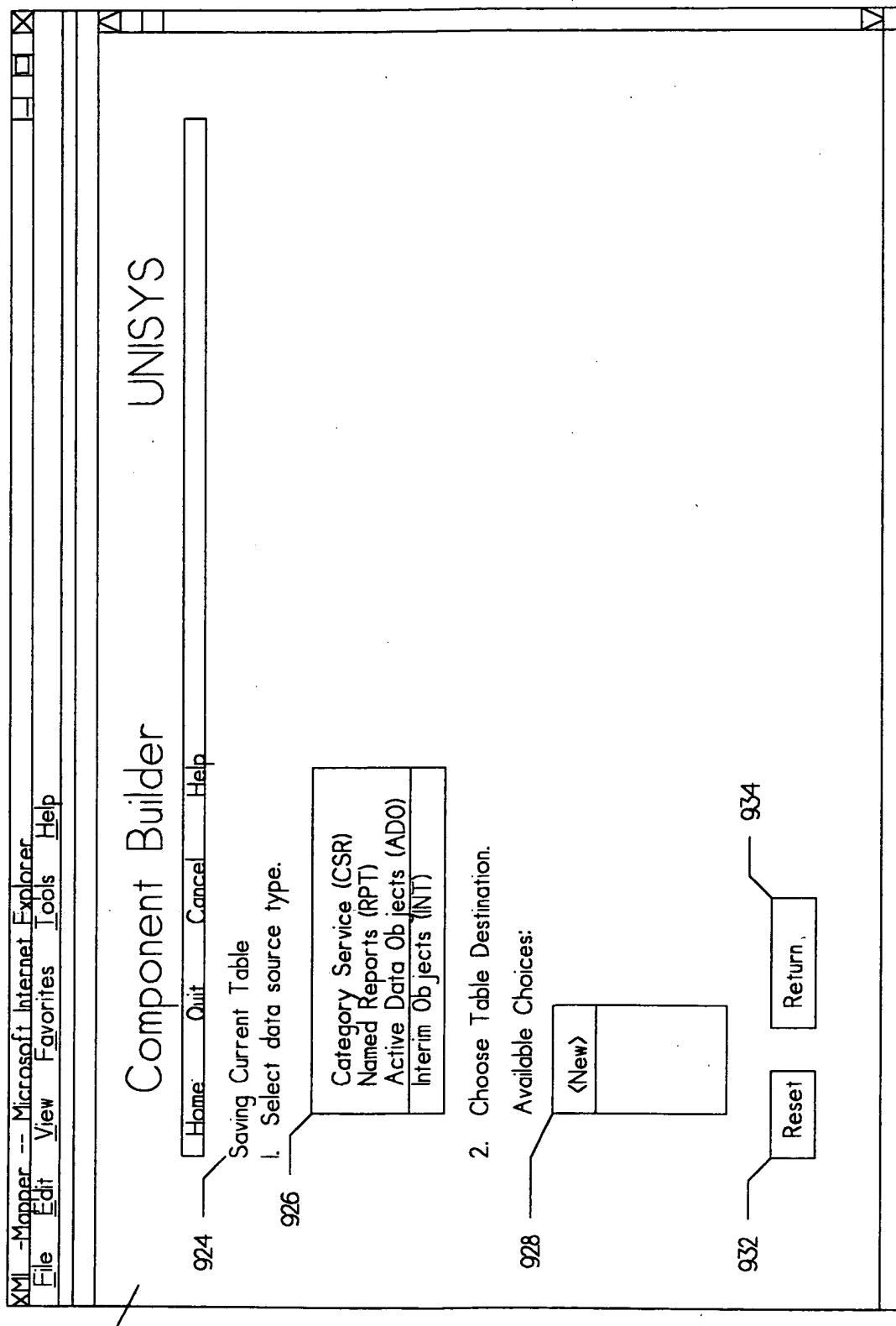


FIG. 32

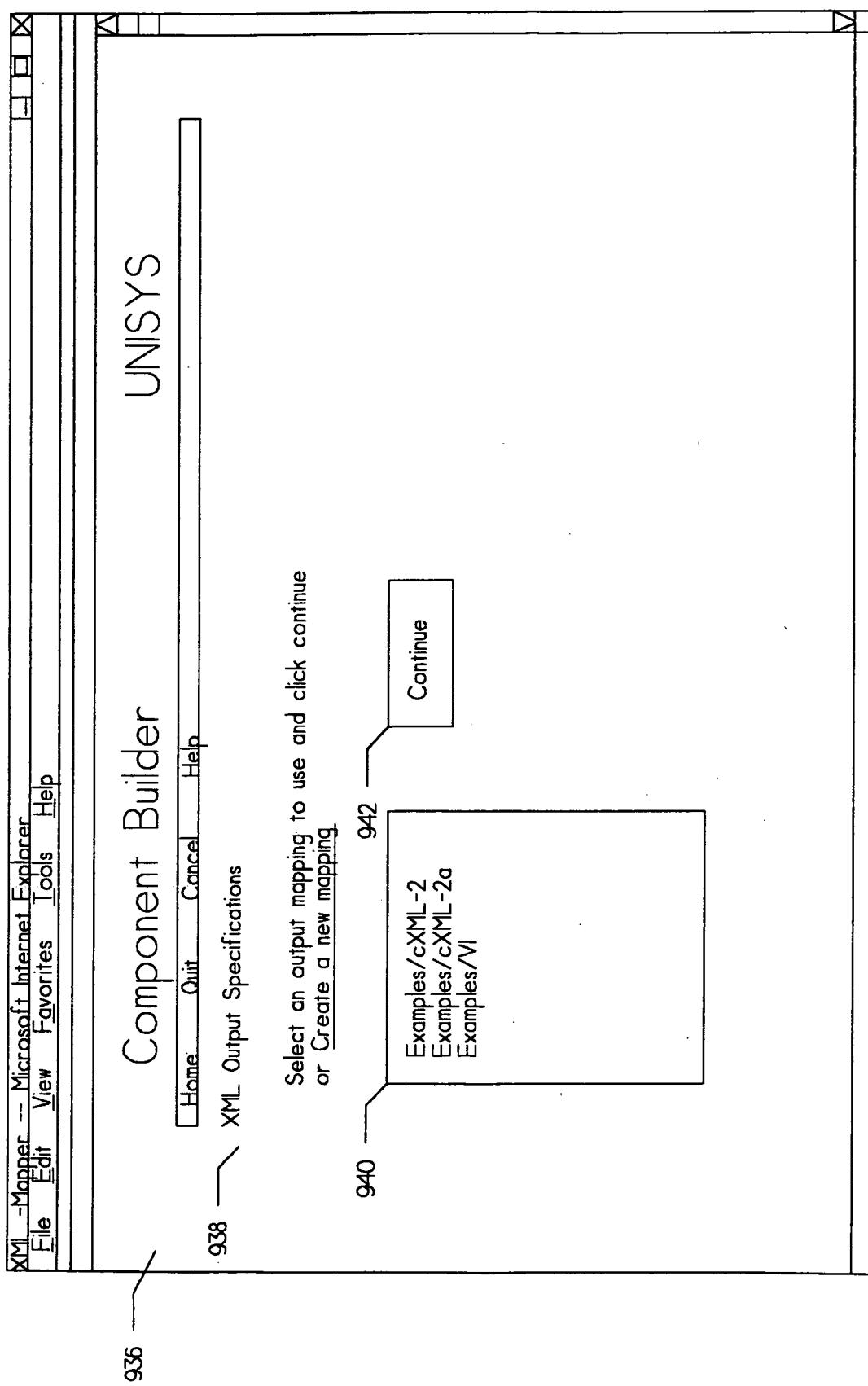


FIG. 33